

### **CLAIMS OF THE INVENTION**

1. A method for loosening a stuck section of a downhole drill string in a well bore hole comprising the steps of:
  - collapsing said stuck section to reduce its outside diameter;
  - initiating a jarring action from within said string upon collapse of said stuck section;
  - and
  - circulating drill fluid from inside said drill string to outside and string into said well borehole as said jarring action is initiated.
2. The method of Claim 1 wherein said stuck section is selected from the group consisting of a stabilizer section, a reamer section, and a casing scraper section.
3. The method of Claim 1 wherein said downhole drill string further comprises:
  - an upper string section;
  - a lower string section joined to said upper string section;
  - a drill bit joined to said lower string section, said upper string section adapted to rotated independently of said lower string section and said drill bit while said upper string section is suspended within the well borehole.
4. The method of Claim 3 wherein said upper string section has a collapsible subassembly.

5. The method of Claim 4 wherein said collapsible subassembly is selected from the group consisting of a stabilizer, a reamer, and a casing scraper.
6. A collapsible downhole drill string for drilling a well borehole comprising:
  - an upper string section having a collapsible subassembly;
  - a lower string section joined to said upper string section;
  - a drill bit joined to said lower string section;
  - said upper string section adapted to rotated independently of said lower string section and said drill bit while said upper string section is suspended within said well borehole.
7. The string of Claim 6 wherein said collapsible subassembly is selected from the group consisting of a stabilizer, a reamer, and a casing scraper.
8. The string of Claim 6 further comprising:
  - a means within said drill string for internally jarring said drill string.
9. The string of Claim 8 further comprising:
  - a means for circulating a drilling fluid through said lower string section when said lower string section is not rotating and said upper string section is rotating.
10. The string of Claim 6 further comprising a means for locating the position of a stuck subassembly along said drill string.